

Name: _____

Commutative Property of Addition	$a + b + c = a + c + b$ $6 + 7 + 8 = 6 + 8 + 7$
Commutative Property of Multiplication	$abc = acb$ $4(5)(1) = 4(1)(5)$
Associative Property of Addition	$a + (b + c) = (a + b) + c$ $3 + (2 + 9) = (3 + 2) + 9$
Associative Property of Multiplication	$a(bc) = (ab)c$ $5(2 \times 3) = (5 \times 2)3$
Distributive Property	$a(b + c) = ab + ac$ $10(x + 7) = 10x + 10(7)$
Symmetric Property	If $a = b$, then $b = a$. If $12 = h$, then $h = 12$.
Identity Property of Addition	$a + 0 = a$ $6 + 0 = 6$
Identity Property of Multiplication	$a(1) = a$ $-10(1) = -10$

Inverse Property of Addition	$a + (-a) = 0$ $7 + (-7) = 0$
Inverse Property of Multiplication	$a(1/a) = 1$ $2(1/2) = 1$
Multiplication Property of Zero	$a(0) = 0$ $7(0) = 0$
Multiplication Property of Negative One	$a(-1) = -a$ $8(-1) = -8$